

Sound insulation index to DIN EN ISO 10140-2010**P-BA 145/2016**

Applicant: DORMA Hüppe Raumtrennsysteme GmbH & Co. KG
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Results sheet 1

Subject:

Movable wall (test item S 10967-09), type Variflex 88, with two full-wall elements and one telescopic element, clad on both sides with 10 mm thick, coated MDF boards; element cavity without mineral wool.
The movable wall (partition) was in a fully functional condition.

Element configuration:

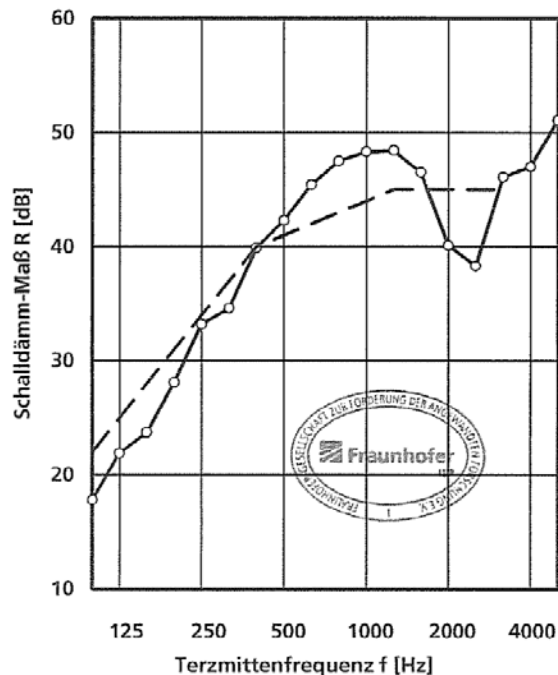
10 mm coated MDF board, mass per unit area: approx. 7.4 kg/m²
68 mm cavity, not filled
10 mm coated MDF board, mass per unit area: approx. 7.4 kg/m²

Thickness of wall: 88 mm
Mass per unit area of wall: 23 kg/m², incl. frame and mechanism

For a further description of the subject and technical data, see Table 1 and also Figs. 1 and 2.

Tested surface area: 10.75 m²
Test rooms: P6
Room volumes:
Source $V_S = 51.5 \text{ m}^3$
Receiver $V_E = 63.2 \text{ m}^3$
Type: Test stand
Rel. humidity: 42% ± 2%
Air temperature: 21.2°C ± 0.3°C
Static air pressure: 970 hPa ± 1 hPa
Test sound: Pink noise
Date of test: 2 Dec. 2015

f [Hz]	R [dB]
50	-
63	-
80	-
100	17,8
125	21,9
160	23,7
200	28,1
250	33,2
315	34,6
400	39,9
500	42,3
630	45,4
800	47,5
1000	48,3
1250	48,4
1600	46,5
2000	40,1
2500	38,3
3150	46,1
4000	47,0
5000	51,1

**Sound
reduction
value R
[dB]**

Third-octave centre frequency f [Hz]

Weighted sound reduction index to DIN EN ISO 717-1:2013

$$R_w (C; C_{tr}; C_{100-5000}; C_{tr, 100-5000}) = 41.2 \pm 1.2 (-2; -7; -1; -7) \text{ dB}$$

Fraunhofer
IBP

This test was carried out in a test laboratory of the IBP, accredited to DIN EN ISO/IEC 17025:2005 by the DAP with certificate no. D-PL-11140-11-01.

Stuttgart, 22 June 2016
Test department manager: